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OIPE

RAW SEQUENCE LISTING   DATE: 10/24/2001
PATENT APPLICATION: US/09/724,685   TIME: 12:35:47

Input Set : A:\-85-6-1.app
Output Set: N:\CRF3\10242001\I724685.raw

SEQUENCE LISTING
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 4 (1) GENERAL INFORMATION:                    ENTERED
 6       (i) APPLICANT: Reed, Steven G.
 7                      Skeiky, Yasir
 8                      Dillon, Davin C.
 9                      Campos-Neto, Antonio
11      (ii) TITLE OF INVENTION: Compounds and Methods for
12                               Immunotherapy and Diagnosis of Tuberculosis
14     (iii) NUMBER OF SEQUENCES: 155
16      (iv) CORRESPONDENCE ADDRESS:
17           (A) ADDRESSEE: Townsend and Townsend and Crew LLP
18           (B) STREET: Two Embarcadero Center, Eighth Floor
19           (C) CITY: San Francisco
20           (D) STATE: California
21           (E) COUNTRY: USA
22           (F) ZIP: 94111-3834
24       (v) COMPUTER READABLE FORM:
25           (A) MEDIUM TYPE: Floppy disk
26           (B) COMPUTER: IBM PC compatible
27           (C) OPERATING SYSTEM: PC-DOS/MS-DOS
28           (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
30      (vi) CURRENT APPLICATION DATA:
C-->31       (A) APPLICATION NUMBER: US/09/724,685
C-->32       (B) FILING DATE: 28-Nov-2000
33           (C) CLASSIFICATION:
63     (vii) PRIOR APPLICATION DATA:
36           (A) APPLICATION NUMBER: US 08/523,436
37           (B) FILING DATE: 01-SEP-1995
40           (A) APPLICATION NUMBER: US 08/533,634
41           (B) FILING DATE: 22-SEP-1995
44           (A) APPLICATION NUMBER: US 08/620,874
45           (B) FILING DATE: 22-MAR-1996
48           (A) APPLICATION NUMBER: US 08/659,683
49           (B) FILING DATE: 05-JUN-1996
52           (A) APPLICATION NUMBER: US 08/680,574
53           (B) FILING DATE: 12-JUL-1996
56           (A) APPLICATION NUMBER: WO PCT/US96/14674
57           (B) FILING DATE: 30-AUG-1996
60           (A) APPLICATION NUMBER: US 08/730,511
61           (B) FILING DATE: 11-OCT-1996
64           (A) APPLICATION NUMBER: US 08/818,112
65           (B) FILING DATE: 13-MAR-1997
67    (viii) ATTORNEY/AGENT INFORMATION:
68           (A) NAME: Bastian, Kevin L.
69           (B) REGISTRATION NUMBER: 34,774
70           (C) REFERENCE/DOCKET NUMBER: 014058-008561US
72       (ix) TELECOMMUNICATION INFORMATION:
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RAW SEQUENCE LISTING   DATE: 10/24/2001
PATENT APPLICATION: US/09/724,685   TIME: 12:35:47

Input Set : A:\-85-6-1.app
Output Set: N:\CRF3\10242001\I724685.raw

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73              (A)  TELEPHONE: (415) 576-0200
74              (B)  TELEFAX: (415) 576-0300
77  (2) INFORMATION FOR SEQ ID NO: 1:
79        (i) SEQUENCE CHARACTERISTICS:
80              (A)  LENGTH: 766 base pairs
81              (B)  TYPE: nucleic acid
82              (C)  STRANDEDNESS: single
83              (D)  TOPOLOGY: linear
85        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
87  CGAGGCACCG GTAGTTTGAA CCAAACGCAC AATCGACGGG CAAACGAACG GAAGAACACA        60
89  ACCATGAAGA TGGTGAAATC GATCGCCGCA GGTCTGACCG CCGCGGCTGC AATCGGCGCC       120
91  GCTGCGGCCG GTGTGACTTC GATCATGGCT GGCGGCCCGG TCGTATACCA GATGCAGCCG       180
93  GTCGTCTTCG GCGCGCCACT GCCGTTGGAC CCGGCATCCG CCCCTGACGT CCCGACCGCC       240
95  GCCCAGTTGA CCAGCCTGCT CAACAGCCTC GCCGATCCCA ACGTGTCGTT TGCGAACAAG       300
97  GGCAGTCTGG TCGAGGGCGG CATCGGGGGC ACCGAGGCGC GCATCGCCGA CCACAAGCTG       360
99  AAGAAGGCCG CCGAGCACGG GGATCTGCCG CTGTCGTTCA GCGTGACGAA CATCCAGCCG       420
101 GCGGCCGCCG GTTCGGCCAC CGCCGACGTT TCCGTCTCGG GTCCGAAGCT CTCGTCGCCG       480
103 GTCACGCAGA ACGTCACGTT CGTGAATCAA GGCGGCTGGA TGCTGTCACG CGCATCGGCG       540
105 ATGGAGTTGC TGCAGGCCGC AGGGNAACTG ATTGGCGGGC CGGNTTCAGC CCGCTGTTCA       600
107 GCTACGCCGC CCGCCTGGTG ACGCGTCCAT GTCGAACACT CGCGCGTGTA GCACGGTGCG       660
109 GTNTGCGCAG GGNCGCACGC ACCGCCCGGT GCAAGCCGTC CTCGAGATAG GTGGTGNCTC       720
111 GNCACCAGNG ANCACCCCCN NNTCGNCNNT TCTCGNTGNT GNATGA                      766
114 (2) INFORMATION FOR SEQ ID NO: 2:
116       (i) SEQUENCE CHARACTERISTICS:
117             (A)  LENGTH: 752 base pairs
118             (B)  TYPE: nucleic acid
119             (C)  STRANDEDNESS: single
120             (D)  TOPOLOGY: linear
122       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
124 ATGCATCACC ATCACCATCA CGATGAAGTC ACGGTAGAGA CGACCTCCGT CTTCCGCGCA        60
126 GACTTCCTCA GCGAGCTGGA CGCTCCTGCG CAAGCGGGTA CGGAGAGCGC GGTCTCCGGG       120
128 GTGGAAGGGC TCCCGCCGGG CTCGGCGTTG CTGGTAGTCA AACGAGGCCC CAACGCCGGG       180
130 TCCCGGTTCC TACTCGACCA AGCCATCACG TCGGCTGGTC GGCATCCCGA CAGCGACATA       240
132 TTTCTCGACG ACGTGACCGT GAGCCGTCGC CATGCTGAAT TCCGGTTGGA AAACAACGAA       300
134 TTCAATGTCG TCGATGTCGG GAGTCTCAAC GGCACCTACG TCAACCGCGA GCCCGTGGAT       360
136 TCGGCGGTGC TGGCGAACGG CGACGAGGTC CAGATCGGCA AGCTCCGGTT GGTGTTCTTG       420
138 ACCGGACCCA AGCAAGGCGA GGATGACGGG AGTACCGGGG GCCCGTGAGC GCACCCGATA       480
140 GCCCCGCGCT GGCCGGGATG TCGATCGGGG CGGTCCTCCG ACCTGCTACG ACCGGATTTT       540
142 CCCTGATGTC CACCATCTCC AAGATTCGAT TCTTGGGAGG CTTGAGGGTC NGGGTGACCC       600
144 CCCCGCGGGC CTCATTCNGG GGTNTCGGCN GGTTTCACCC CNTACCNACT GCCNCCCGGN       660
146 TTGCNAATTC NTTCTTCNCT GCCCNNAAAG GGACCNTTAN CTTGCCGCTN GAAANGGTNA       720
148 TCCNGGGCCC NTCCTNGAAN CCCCNTCCCC CT                                     752
151 (2) INFORMATION FOR SEQ ID NO: 3:
153       (i) SEQUENCE CHARACTERISTICS:
154             (A)  LENGTH: 813 base pairs
155             (B)  TYPE: nucleic acid
156             (C)  STRANDEDNESS: single
157             (D)  TOPOLOGY: linear
159       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
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RAW SEQUENCE LISTING   DATE: 10/24/2001
PATENT APPLICATION: US/09/724,685   TIME: 12:35:47

Input Set : A:\-85-6-1.app
Output Set: N:\CRF3\10242001\I724685.raw

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161 CATATGCATC ACCATCACCA TCACACTTCT AACCGCCCAG CGCGTCGGGG GCGTCGAGCA      60
163 CCACGCGACA CCGGGCCCGA TCGATCTGCT AGCTTGAGTC TGGTCAGGCA TCGTCGTCAG     120
165 CAGCGCGATG CCCTATGTTT GTCGTCGACT CAGATATCGC GGCAATCCAA TCTCCCGCCT     180
167 GCGGCCGGCG GTGCTGCAAA CTACTCCCGG AGGAATTTCG ACGTGCGCAT CAAGATCTTC     240
169 ATGCTGGTCA CGGCTGTCGT TTTGCTCTGT TGTTCGGGTG TGGCCACGGC CGCGCCCAAG     300
171 ACCTACTGCG AGGAGTTGAA AGGCACCGAT ACCGGCCAGG CGTGCCAGAT TCAAATGTCC     360
173 GACCCGGCCT ACAACATCAA CATCAGCCTG CCCAGTTACT ACCCCGACCA GAAGTCGCTG     420
175 GAAAATTACA TCGCCCAGAC GCGCGACAAG TTCCTCAGCG CGGCCACATC GTCCACTCCA     480
177 CGCGAAGCCC CCTACGAATT GAATATCACC TCGGCCACAT ACCAGTCCGC GATACCGCCG     540
179 CGTGGTACGC AGGCCGTGGT GCTCAMGGTC TACCACAACG CCGGCGGCAC GCACCCAACG     600
181 ACCACGTACA AGGCCTTCGA TTGGGACCAG GCCTATCGCA AGCCAATCAC CTATGACACG     660
183 CTGTGGCAGG CTGACACCGA TCCGCTGCCA GTCGTCTTCC CCATTGTTGC AAGGTGAACT     720
185 GAGCAACGCA GACCGGGACA ACWGGTATCG ATAGCCGCCN AATGCCGGCT TGGAACCCNG     780
187 TGAAATTATC ACAACTTCGC AGTCACNAAA NAA  ,                              813
190 (2) INFORMATION FOR SEQ ID NO: 4:
192     (i) SEQUENCE CHARACTERISTICS:
193         (A) LENGTH: 447 base pairs
194         (B) TYPE: nucleic acid
195         (C) STRANDEDNESS: single
196         (D) TOPOLOGY: linear
198    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
200 CGGTATGAAC ACGGCCGCGT CCGATAACTT CCAGCTGTCC CAGGGTGGGC AGGGATTCGC      60
202 CATTCCGATC GGGCAGGCGA TGGCGATCGC GGGCCAGATC CGATCGGGTG GGGGGTCACC     120
204 CACCGTTCAT ATCGGGCCTA CCGCCTTCCT CGGCTTGGGT GTTGTCGACA ACAACGGCAA     180
206 CGGCGCACGA GTCCAACGCG TGGTCGGGAG CGCTCCGGCG GCAAGTCTCG GCATCTCCAC     240
208 CGGCGACGTG ATCACCGCGG TCGACGGCGC TCCGATCAAC TCGGCCACCG CGATGGCGGA     300
210 CGCGCTTAAC GGGCATCATC CCGGTGACGT CATCTCGGTG AACTGGCAAA CCAAGTCGGG     360
212 CGGCACGCGT ACAGGGAACG TGACATTGGC CGAGGGACCC CCGGCCTGAT TTCGTCGYGG     420
214 ATACCACCCG CCGGCCGGCC AATTGGA                                        447
217 (2) INFORMATION FOR SEQ ID NO: 5:
219     (i) SEQUENCE CHARACTERISTICS:
220         (A) LENGTH: 604 base pairs
221         (B) TYPE: nucleic acid
222         (C) STRANDEDNESS: single
223         (D) TOPOLOGY: linear
225    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
227 GTCCCACTGC GGTCGCCGAG TATGTCGCCC AGCAAATGTC TGGCAGCCGC CCAACGGAAT      60
229 CCGGTGATCC GACGTCGCAG GTTGTCGAAC CCGCCGCCGC GGAAGTATCG GTCCATGCCT     120
231 AGCCCGGCGA CGGCGAGCGC CGGAATGGCG CGAGTGAGGA GGCGGGCAAT TTGGCGGGGC     180
233 CCGGCGACGG NGAGCGCCGG AATGGCGCGA GTGAGGAGGT GGNCAGTCAT GCCCAGNGTG     240
235 ATCCAATCAA CCTGNATTCG GNCTGNGGGN CCATTTGACA ATCGAGGTAG TGAGCGCAAA     300
237 TGAATGATGG AAAACGGGNG GNGACGTCCG NTGTTCTGGT GGTGNTAGGT GNCTGNCTGG     360
239 NGTNGNGGNT ATCAGGATGT TCTTCGNCGA AANCTGATGN CGAGGAACAG GGTGTNCCCG     420
241 NNANNCCNAN GGNGTCCNAN CCCNNNNTCC TCGNCGANAT CANANAGNCG NTTGATGNGA     480
243 NAAAAGGGTG GANCAGNNNN AANTNGNGGN CCNAANAANC NNNANNGNNG NNAGNTNGNT     540
245 NNNTNTTNNC ANNNNNNNTG NNGNNGNNCN NNNCAANCNN NTNNNNGNAA NNGGNTTNTT     600
247 NAAT                                                                604
250 (2) INFORMATION FOR SEQ ID NO: 6:
252     (i) SEQUENCE CHARACTERISTICS:
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RAW SEQUENCE LISTING   DATE: 10/24/2001
PATENT APPLICATION: US/09/724,685 TIME: 12:35:47

Input Set : A:\-85-6-1.app
Output Set: N:\CRF3\10242001\I724685.raw

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253              (A) LENGTH: 633 base pairs
254              (B) TYPE: nucleic acid
255              (C) STRANDEDNESS: single
256              (D) TOPOLOGY: linear
258      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
260 TTGCANGTCG AACCACCTCA CTAAAGGGAA CAAAAGCTNG AGCTCCACCG CGGTGGCGGC      60
262 CGCTCTAGAA CTAGTGKATM YYYCKGGCTG CAGSAATYCG GYACGAGCAT TAGGACAGTC     120
264 TAACGGTCCT GTTACGGTGA TCGAATGACC GACGACATCC TGCTGATCGA CACCGACGAA     180
266 CGGGTGCGAA CCCTCACCCT CAACCGGCCG CAGTCCCGYA ACGCGCTCTC GGCGGCGCTA     240
268 CGGGATCGGT TTTTCGCGGY GTTGGYCGAC GCCGAGGYCG ACGACGACAT CGACGTCGTC     300
270 ATCCTCACCG GYGCCGATCC GGTGTTCTGC GCCGGACTGG ACCTCAAGGT AGCTGGCCGG     360
272 GCAGACCGCG CTGCCGGACA TCTCACCGCG GTGGGCGGCC ATGACCAAGC CGGTGATCGG     420
274 CGCGATCAAC GGCGCCGCGG TCACCGGCGG GCTCGAACTG GCGCTGTACT GCGACATCCT     480
276 GATCGCCTCC GAGCACGCCC GCTTCGNCGA CACCCACGCC CGGGTGGGGC TGCTGCCCAC     540
278 CTGGGGACTC AGTGTGTGCT TGCCGCAAAA GGTCGGCATC GGNCTGGGCC GGTGGATGAG     600
280 CCTGACCGGC GACTACCTGT CCGTGACCGA CGC                                 633
283 (2) INFORMATION FOR SEQ ID NO: 7:
285      (i) SEQUENCE CHARACTERISTICS:
286              (A) LENGTH: 1362 base pairs
287              (B) TYPE: nucleic acid
288              (C) STRANDEDNESS: single
289              (D) TOPOLOGY: linear
291      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
293 CGACGACGAC GGCGCCGGAG AGCGGGCGCG AACGGCGATC GACGCGGCCC TGGCCAGAGT      60
295 CGGCACCACC CAGGAGGGAG TCGAATCATG AAATTTGTCA ACCATATTGA GCCCGTCGCG     120
297 CCCCGCCGAG CCGGCGGCGC GGTCGCCGAG GTCTATGCCG AGGCCCGCCG CGAGTTCGGC     180
299 CGGCTGCCCG AGCCGCTCGC CATGCTGTCC CCGGACGAGG GACTGCTCAC CGCCGGCTGG     240
301 GCGACGTTGC GCGAGACACT GCTGGTGGGC CAGGTGCCGC GTGGCCGCAA GGAAGCCGTC     300
303 GCCGCCGCCG TCGCGGCCAG CCTGCGCTGC CCCTGGTGCG TCGACGCACA CACCACCATG     360
305 CTGTACGCGG CAGGCCAAAC CGACACCGCC GCGGCGATCT TGGCCGGCAC AGCACCTGCC     420
307 GCCGGTGACC CGAACGCGCC GTATGTGGCG TGGGCGGCAG GAACCGGGAC ACCGGCGGGA     480
309 CCGCCGGCAC CGTTCGGCCC GGATGTCGCC GCCGAATACC TGGGCACCGC GGTGCAATTC     540
311 CACTTCATCG CACGCCTGGT CCTGGTGCTG CTGGACGAAA CCTTCCTGCC GGGGGGCCCG     600
313 CGCGCCCAAC AGCTCATGCG CCGCGCCGGT GGACTGGTGT TCGCCCGCAA GGTGCGCGCG     660
315 GAGCATCGGC CGGGCCGCTC CACCCGCCGG CTCGAGCCGC GAACGCTGCC CGACGATCTG     720
317 GCATGGGCAA CACCGTCCGA GCCCATAGCA ACCGCGTTCG CCGCGCTCAG CCACCACCTG     780
319 GACACCGCGC CGCACCTGCC GCCACCGACT CGTCAGGTGG TCAGGCGGGT CGTGGGGTCG     840
321 TGGCACGGCG AGCCAATGCC GATGAGCAGT CGCTGGACGA ACGAGCACAC CGCCGAGCTG     900
323 CCCGCCGACC TGCACGCGCC CACCCGTCTT GCCCTGCTGA CCGGCCTGGC CCCGCATCAG     960
325 GTGACCGACG ACGACGTCGC CGCGGCCCGA TCCCTGCTCG ACACCGATGC GGCGCTGGTT    1020
327 GGCGCCCTGG CCTGGGCCGC CTTCACCGCC GCGCGGCGCA TCGGCACCTG GATCGGCGCC    1080
329 GCCGCCGAGG GCCAGGTGTC GCGGCAAAAC CCGACTGGGT GAGTGTGCGC GCCCTGTCGG    1140
331 TAGGGTGTCA TCGCTGGCCC GAGGGATCTC GCGGCGGCGA ACGGAGGTGG CGACACAGGT    1200
333 GGAAGCTGCG CCCACTGGCT TGCGCCCCAA CGCCGTCGTG GGCGTTCGGT TGGCCGCACT    1260
335 GGCCGATCAG GTCGGCGCCG GCCCTTGGCC GAAGGTCCAG CTCAACGTGC CGTCACCGAA    1320
337 GGACCGGACG GTCACCGGGG GTCACCCTGC GCGCCCAAGG AA                       1362
340 (2) INFORMATION FOR SEQ ID NO: 8:
342      (i) SEQUENCE CHARACTERISTICS:
343              (A) LENGTH: 1458 base pairs
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RAW SEQUENCE LISTING   DATE: 10/24/2001
PATENT APPLICATION: US/09/724,685   TIME: 12:35:47

Input Set : A:\-85-6-1.app
Output Set: N:\CRF3\10242001\I724685.raw

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344            (B) TYPE: nucleic acid
345            (C) STRANDEDNESS: single
346            (D) TOPOLOGY: linear
348     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
350 GCGACGACCC CGATATGCCG GGCACCGTAG CGAAAGCCGT CGCCGACGCA CTCGGGCGCG          60
352 GTATCGCTCC CGTTGAGGAC ATTCAGGACT GCGTGGAGGC CCGGCTGGGG GAAGCCGGTC         120
354 TGGATGACGT GGCCCGTGTT TACATCATCT ACCGGCAGCG GCGCGCCGAG CTGCGGACGG         180
356 CTAAGGCCTT GCTCGGCGTG CGGGACGAGT TAAAGCTGAG CTTGGCGGCC GTGACGGTAC         240
358 TGCGCGAGCG CTATCTGCTG CACGACGAGC AGGGCCGGCC GGCCGAGTCG ACCGGCGAGC         300
360 TGATGGACCG ATCGGCGCGC TGTGTCGCGG CGGCCGAGGA CCAGTATGAG CCGGGCTCGT         360
362 CGAGGCGGTG GGCCGAGCGG TTCGCCACGC TATTACGCAA CCTGGAATTC CTGCCGAATT         420
364 CGCCCACGTT GATGAACTCT GGCACCGACC TGGGACTGCT CGCCGGCTGT TTTGTTCTGC         480
366 CGATTGAGGA TTCGCTGCAA TCGATCTTTG CGACGCTGGG ACAGGCCGCC GAGCTGCAGC         540
368 GGGCTGGAGG CGGCACCGGA TATGCGTTCA GCCACCTGCG ACCCGCCGGG GATCGGGTGG         600
370 CCTCCACGGG CGGCACGGCC AGCGGACCGG TGTCGTTTCT ACGGCTGTAT GACAGTGCCG         660
372 CGGGTGTGGT CTCCATGGGC GGTCGCCGGC GTGGCGCCTG TATGGCTGTG CTTGATGTGT         720
374 CGCACCCGGA TATCTGTGAT TTCGTCACCG CCAAGGCCGA ATCCCCCAGC GAGCTCCCGC         780
376 ATTTCAACCT ATCGGTTGGT GTGACCGACG CGTTCCTGCG GGCCGTCGAA CGCAACGGCC         840
378 TACACCGGCT GGTCAATCCG CGAACCGGCA AGATCGTCGC GCGGATGCCC GCCGCCGAGC         900
380 TGTTCGACGC CATCTGCAAA GCCGCGCACG CCGGTGGCGA TCCCGGGCTG GTGTTTCTCG         960
382 ACACGATCAA TAGGGCAAAC CCGGTGCCGG GGAGAGGCCG CATCGAGGCG ACCAACCCGT        1020
384 GCGGGGAGGT CCCACTGCTG CCTTACGAGT CATGTAATCT CGGCTCGATC AACCTCGCCC        1080
386 GGATGCTCGC CGACGGTCGC GTCGACTGGG ACCGGCTCGA GGAGGTCGCC GGTGTGGCGG        1140
388 TGCGGTTCCT TGATGACGTC ATCGATGTCA GCCGCTACCC CTTCCCCGAA CTGGGTGAGG        1200
390 CGGCCCGCGC CACCCGCAAG ATCGGGCTGG GAGTCATGGG TTTGGCGGAA CTGCTTGCCG        1260
392 CACTGGGTAT TCCGTACGAC AGTGAAGAAG CCGTGCGGTT AGCCACCCGG CTCATGCGTC        1320
394 GCATACAGCA GGCGGCGCAC ACGGCATCGC GGAGGCTGGC CGAAGAGCGG GGCGCATTCC        1380
396 CGGCGTTCAC CGATAGCCGG TTCGCGCGGT CGGGCCCGAG GCGCAACGCA CAGGTCACCT        1440
398 CCGTCGCTCC GACGGGCA                                                      1458
401 (2) INFORMATION FOR SEQ ID NO: 9:
403     (i) SEQUENCE CHARACTERISTICS:
404            (A) LENGTH: 862 base pairs
405            (B) TYPE: nucleic acid
406            (C) STRANDEDNESS: single
407            (D) TOPOLOGY: linear
409     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
411 ACGGTGTAAT CGTGCTGGAT CTGGAACCGC GTGGCCCGCT ACCTACCGAG ATCTACTGGC          60
413 GGCGCAGGGG GCTGGCCCTG GGCATCGCGG TCGTCGTAGT CGGGATCGCG GTGGCCATCG         120
415 TCATCGCCTT CGTCGACAGC AGCGCCGGTG CCAAACCGGT CAGCGCCGAC AAGCCGGCCT         180
417 CCGCCCAGAG CCATCCGGGC TCGCCGGCAC CCCAAGCACC CCAGCCGGCC GGGCAAACCG         240
419 AAGGTAACGC CGCCGCGGCC CCGCCGCAGG GCCAAAACCC CGAGACACCC ACGCCCACCG         300
421 CCGCGGTGCA GCCGCCGCCG GTGCTCAAGG AAGGGGACGA TTGCCCCGAT TCGACGCTGG         360
423 CCGTCAAAGG TTTGACCAAC GCGCCGCAGT ACTACGTCGG CGACCAGCCG AAGTTCACCA         420
425 TGGTGGTCAC CAACATCGGC CTGGTGTCCT GTAAACGCGA CGTTGGGCC GCGGTGTTGG         480
427 CCGCCTACGT TTACTCGCTG GACAACAAGC GGTTGTGGTC CAACCTGGAC TGCGCGCCCT         540
429 CGAATGAGAC GCTGGTCAAG ACGTTTTCCC CCGGTGAGCA GGTAACGACC GCGGTGACCT         600
431 GGACCGGGAT GGGATCGGCG CCGCGCTGCC CATTGCCGCG GCCGGCGATC GGGCCGGGCA         660
433 CCTACAATCT CGTGGTACAA CTGGGCAATC TGCGCTCGCT GCCGGTTCCG TTCATCCTGA         720
435 ATCAGCCGCC GCCGCCGCCC GGGCCGGTAC CCGCTCCGGG TCCAGCGCAG GCGCCTCCGC         780
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old format
O.K.

VERIFICATION SUMMARY   DATE: 10/24/2001
PATENT APPLICATION: US/09/724,685   TIME: 12:35:48

        Input Set : A:\-85-6-1.app
        Output Set: N:\CRF3\10242001\I724685.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:].
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:1894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:1999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
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L:5283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145